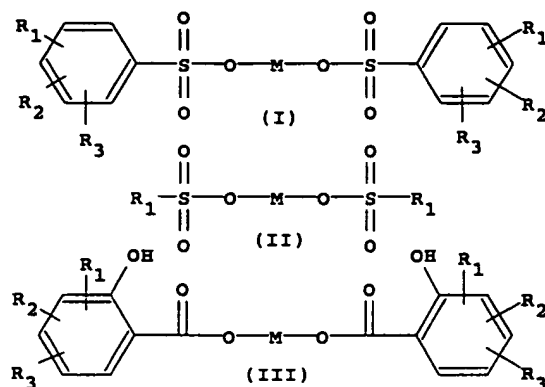


97-073244/07 A97 E19 H07 TOYT 95.05.25
 TOYOTA JIDOSHA KK *JP 08319494-A
 95.05.25 95JP-150827 (96.12.03) C10M 161/00, 139/00 (C10M
 129:10, 129:54, 135:10, 135:30, 139:00, 149:18, 161/00) (C10N 10:04,
 30:00, 40:04)
 Lubricating oil compsn. for automatic transmission of automobiles
 with traction control - contains organic acid metal salt of alkaline
 earth metal and polyamide-based cpd., giving high durability and
 transmission torque
 C97-023721
 Addnl. Data: TONEN CORP (TOFU)

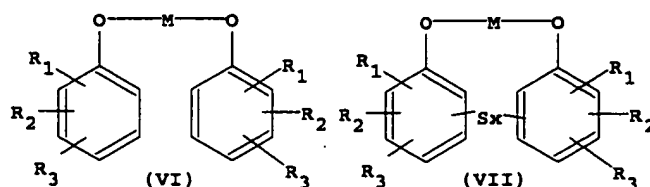
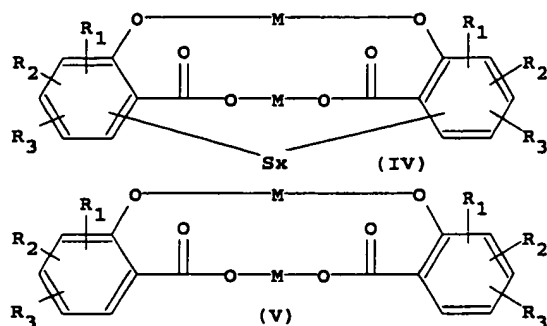
The lubricating oil base oil contains 0.02-1 wt.% of at least one cpd.
 selected from the organic acid metal salts of formulae (I)-(VII);

A(5-F1E, 12-T4, 12-W2A) E(10-A4A, 10-A9B, 10-
 C4B) H(7-A)

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and 0.01-3 wt.% of a polyamide-based cpd. of formula (VIII):



where M = alkaline earth metal;
 R₁ = 6-18 C hydrocarbon gp.;
 R₂ and R₃ = H or 1-18 C hydrocarbon gp.;
 x = 1-5;
 R₄ = 12-50 C hydrocarbon gp.;

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R₅ = OH or H₂N(CH₂)_cNH gp.;
 R₆ = H, or HOOCR₇CO gp.;
 a = 2-6; b = 1-10; c = 2-6; and
 R₇ = 12-50 C hydrocarbon gp..

USE

The oil compsn. for an automatic transmission is suitable for an
 automobile having traction control.

ADVANTAGE

Even if an automatic transmission having traction control and
 using the lubricating oil compsn. actuates a lock-up mechanism at low
 speed, the automatic transmission has shudder vibration preventing
 performance for new oil, superior durability, and high transmission
 torque capacity without decreasing the shudder vibration preventing
 performance after continuous application. (NA)

(13pp215DwgNo.0/0)